

Physical Properties of Refrigerants

R404A

Environmental Classification	HFC
Molecular Weight	97.6
Boiling Point (°C), 101.3KPa	-46.1
Critical Pressure (psia)	548.2
Critical Temperature (°C)	72.4
Critical Density (lb./ft ³)	35.84
Liquid Density, 30 °C, (KG / M ³)	66.37
Vapor Density (bp, lb./ft ³)	0.342
Heat of Vaporization (bp, BTU/lb.)	86.1
Specific Heat, Liquid, 30 °C, (KJ / KG .K)	1017.2
Specific Heat Vapor (1atm, 20 °F, BTU/lb. °F)	0.2077
Ozone Depletion Potential (CFC 11 -1.0)	0
Global Warming Potential (CO2 = 1.0)	3920
ASHRAE Standard 34 Safety Rating	A1

Pressure- Temp Chart

Temp °C	R-404 psig
-40.0	4.3
-37.2	6.8
-34.4	9.5
-31.7	12.5
-28.9	15.7
-26.1	19.3
-23.3	23.2
-20.6	27.5
-17.8	32.1
-15.0	37.0
-12.2	42.4
-9.4	48.2
-6.7	54.5
-3.9	61.2
-1.1	68.4
1.7	76.1
4.4	84.4
7.2	93.2
10.0	103
12.8	113
15.6	123
18.3	135
21.1	147
23.9	159
26.7	173
29.4	187
32.2	202
35.0	218
37.8	234
40.6	252
43.3	270
46.1	289
48.9	310
51.7	331
54.4	353
57.2	377
60.0	401
62.8	426
65.6	453

This information is believed to be accurate and reliable but is provided for guidance only.

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